

President: James Nunney BSc

On **Thursday 3rd May** in the **Rupert Beckett Lecture Theatre** (Michael Sadler Building), Leeds University, starting at 7.15 p.m, **Dr Laura Gregory** of Leeds SEE will present a talk titled:

'Faults and earthquake hazard: the past is the key to the present'.

In an ideal world, earthquakes would occur at regular intervals such that information on the rate and typical size of past events could be used to make accurate forecasts of the future likelihood of earthquakes. Earthquake geologists would have a fairly easy job because we could essentially 'predict' earthquakes in places that had experienced historical events. As any geologist knows, the earth is complicated and the recurrence of earthquakes is not 'characteristic'. I will outline some of the basics of earthquake mechanics, and show why it is important to investigate the history of earthquakes in a region on timescales longer than humans have recorded them. I will explain the many tools that we use to investigate the patterns and rates of earthquakes in tectonically active regions, from the Altay Mountains of Western Mongolia to the Italian Apennines. We will discuss how earthquake recurrence can be highly variable in time and space, even on millennial timescales, and I will show how accurate and precise geochemical methods are the key to understand past earthquake activity.



Investigating a fault surface exposed after the 2016 Italian earthquake

Tea, coffee & biscuits will be available after the talks.

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Other Yorkshire geological events:

1) May is 'Yorkshire geology Month' For details of all events (which are open to the public) see:

<http://www.yorksgeolsoc.org.uk/EDITABLE/yorksgeolmonth.pdf>

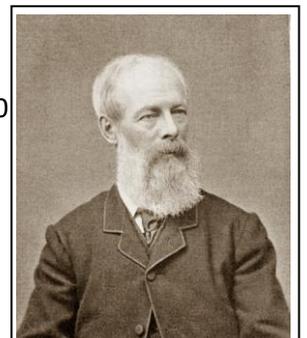
2) The '**Green Lecture**' **Wednesday 23rd May** 18:00 Rupert Beckett Lecture Theatre, University of Leeds.

"What's under a volcano... and how do we know?" Prof Kathy Cashman FRS

The Green Lectureship was established in 2017 and is named after Prof AH Green FRS who, in 1875, was the first professor of Geology at the Yorkshire College. He was also one of the first members of the Leeds Geological Association and served as President between 1876-1880. More information about Prof AH Green, the Green Lectureship and the speaker can be found on the School of Earth and Environment web pages at:

<http://see.leeds.ac.uk/research/igt/working-groups/green-lecture/>

The lecture is designed to appeal to all those interested in geology and Earth science and is aimed at a general audience. Free registration is required and the lecture is followed by a complimentary drinks reception. Please register at: <https://bit.ly/GreenLecture>



Prof AH Green

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